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1   Nonorthogonal decomposition of binary matrices for bounded-error data compression and analysis   ■

Mehmet Koyutürk, Ananth Grama, Naren Ramakrishnan
March 2006   **ACM Transactions on Mathematical Software (TOMS)**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.07 MB)   Additional Information: full citation, abstract, references, index terms

This article presents the design and implementation of a software tool, PROXIMUS, for error-bounded approximation of high-dimensional binary attributed datasets based on nonorthogonal decomposition of binary matrices. This tool can be used for analyzing data arising in a variety of domains ranging from commercial to scientific applications. Using a combination of innovative algorithms, novel data structures, and efficient implementation, PROXIMUS demonstrates excellent accuracy, performance, and ...

Keywords: Compressing binary-valued vectors, nonorthogonal matrix decompositions, semidiscrete decomposition

2   Modeling: PNORMS: platonic derived normals for error bound compression   ■

João Fradinho Oliveira, Bernard Francis Buxton
November 2006   **Proceedings of the ACM symposium on Virtual reality software and technology VRST '06**
Publisher: ACM Press
Full text available: 📄 pdf(3.97 MB)   Additional Information: full citation, abstract, references, index terms

3D models of millions of triangles invariably repeatedly use the same 12-byte unit normals. Several bit-wise compression algorithms exist for efficient storage and progressive transmission and visualization of normal vectors. However such methods often incur a reconstruction time penalty which, in the absence of dedicated hardware acceleration, make real-time rendering with such compression/reconstruction methods prohibitive. In particular, several methods use a subdivided octahedron to create I ...

Keywords: colour compression, error bound, normal compression, run-time encoding

3   Bounded-error compression of particle data from hierarchical approximate methods   ■

Dow-Yung Yang, Ananth Grama, Vivek Sarin
January 1999   **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**
Publisher: ACM Press
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4   Bounded-error compression of particle data from hierarchical approximate methods   ■

Dow-Yung Yang, Ananth Grama, Vivek Sarin
January 1999   **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**
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1 Sample compression bounds for decision trees   ◼
Mohak Shah
June 2007 **Proceedings of the 24th international conference on Machine learning ICML '07**
Publisher: ACM Press
Full text available: 📄 pdf(232.56 KB)   Additional Information: full citation, abstract, references

We propose a formulation of the Decision Tree learning algorithm in the Compression settings and
derive tight generalization error bounds. In particular, we propose Sample Compression and
Occam's Razor bounds. We show how such bounds, unlike the VC dimension or Rademacher
complexities based bounds, are more general and can also perform a margin-sparsity trade-off to
obtain better classifers. Potentially, these risk bounds can also guide the model selection process
and replace traditional prun ...

2 Nonorthogonal decomposition of binary matrices for bounded-error data compression and   ◼
analysis
Mehmet Koyutürk, Ananth Grama, Naren Ramakrishnan
March 2006 **ACM Transactions on Mathematical Software (TOMS)**, Volume 32 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(1.07 MB)   Additional Information: full citation, abstract, references, index terms

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error-bounded approximation of high-dimensional binary attributed datasets based on
nonorthogonal decomposition of binary matrices. This tool can be used for analyzing data arising
in a variety of domains ranging from commercial to scientific applications. Using a combination of
innovative algorithms, novel data structures, and efficient implementation, PROXIMUS
demonstrates excellent accuracy, performance, and ...

Keywords: Compressing binary-valued vectors, nonorthogonal matrix decompositions,
semidiscrete decomposition

3 Bounded-error compression of particle data from hierarchical approximate methods   ◼
Dow-Yung Yang, Ananth Grama, Vivek Sarin
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                Supercomputing '99
Publisher: ACM Press
Full text available: 📄 pdf(691.10 KB)   Additional Information: full citation, references, index terms

4 Bounded-error compression of particle data from hierarchical approximate methods   ◼
Dow-Yung Yang, Ananth Grama, Vivek Sarin
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
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1   Multi-dimensional trees for controlled volume rendering and compression   ◼
◆ Jane Wilhelms, Allen Van Gelder
   October 1994 **Proceedings of the 1994 symposium on Volume visualization VVS '94**
   Publisher: ACM Press
   Full text available: 🔲 pdf(2.01 MB)   Additional Information: full citation, citings, index terms

2   Course 4: State of the art in massive model visualization: Efficient data reduction and   ◼
◆ **cache-coherent techniques toward real-time performance**
   Dave Kasik
   August 2007 **ACM SIGGRAPH 2007 courses SIGGRAPH '07**
   Publisher: ACM Press
   Full text available: 🔲 pdf(11.81 MB)   Additional Information: full citation, references

3   Energy-aware lossless data compression   ◼
◆ Kenneth C. Barr, Krste Asanović
   August 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 3
   Publisher: ACM Press
   Full text available: 🔲 pdf(873.90 KB)   Additional Information: full citation, abstract, references, index terms

   Wireless transmission of a single bit can require over 1000 times more energy than a single
   computation. It can therefore be beneficial to perform additional computation to reduce the
   number of bits transmitted. If the energy required to compress data is less than the energy
   required to send it, there is a net energy savings and an increase in battery life for portable
   computers. This article presents a study of the energy savings possible by losslessly compressing
   data prior to transmission. A ...

   Keywords: Compression, energy-aware, lossless, low-power, power-aware

4   Modeling for text compression   ◼
◆ Timothy Bell, Ian H. Witten, John G. Cleary
   December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4
   Publisher: ACM Press
   Full text available: 🔲 pdf(3.54 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

   The best schemes for text compression use large models to help them predict which characters
   will come next. The actual next characters are coded with respect to the prediction, resulting in
   compression of information. Models are best formed adaptively, based on the text seen so far.
   This paper surveys successful strategies for adaptive modeling that are suitable for use in practical
   text compression systems. The strategies fall into three main classes: finite-context modeling, i ...

5   Level set and PDE methods for computer graphics   ◼
◆ David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
   August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
   Publisher: ACM Press
   Full text available: 🔲 pdf(17.07 MB)   Additional Information: full citation, abstract, citings

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1   Predicting whole-program locality through reuse distance analysis   ▬
Chen Ding, Yutao Zhong
May 2003   **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on
            Programming language design and implementation PLDI '03**, Volume 38 Issue 5
Publisher: ACM Press
Full text available: pdf(297.60 KB)   Additional Information: full citation, abstract, references, citings, index terms

Profiling can accurately analyze program behavior for select data inputs. We show that profiling
can also predict program locality for inputs other than profiled ones. Here locality is defined by the
distance of data reuse. Studying whole-program data reuse may reveal global patterns not
apparent in short-distance reuses or local control flow. However, the analysis must meet two
requirements to be useful. The first is efficiency. It needs to analyze all accesses to all data
elements in full-size ...

Keywords: data locality, pattern recognition, prediction, profiling, program locality, reuse
distance, sampling, stack distance, training

2   On randomization in sequential and distributed algorithms   ▬
Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar
March 1994   **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1
Publisher: ACM Press
Full text available: pdf(8.01 MB)   Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional
deterministic algorithms. This survey presents five techniques that have been widely used in the
design of randomized algorithms. These techniques are illustrated using 12 randomized
algorithms—both sequential and distributed— that span a wide range of applications,
including:primality testing (a classical problem in number theory), interactive probabilistic proof s
...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining
philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive
probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect
hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms,
randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

3   Dynamic ordered sets with exponential search trees   ▬
Arne Andersson, Mikkel Thorup
June 2007   **Journal of the ACM (JACM)**, Volume 54 Issue 3
Publisher: ACM Press
Full text available: pdf(345.23 KB)   Additional Information: full citation, abstract, references, index terms

We introduce exponential search trees as a novel technique for converting static polynomial space
search structures for ordered sets into fully-dynamic linear space data structures.

This leads to an *optimal* bound of $O(\sqrt{\log n/\log \log n})$ for searching and updating a dynamic
set X of n integer keys in linear space. Searching X for an integer y means finding the maximum
key in X which is smaller than or equal to y. ...

Keywords: Search trees, ordered lists

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IET JNL   IET Journal or Magazine

IEEE CNF   IEEE Conference   ☐   1. **Abstracts of Current Computer Literature**
            Proceeding   Computers, IEEE Transactions on
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IET CNF   IET Conference
            Proceeding   Full Text: PDF(12768 KB)   IEEE JNL
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IEEE STD   IEEE Standard

                                    ☐   2. **Back cover**
                                            Communications, IEEE Transactions on [legacy, pre - 1988]
                                            Volume 30, Issue 12, Dec 1982 Page(s):0 - 0

                                            AbstractPlus | Full Text: PDF(3768 KB)   IEEE JNL
                                            Rights and Permissions

                                    ☐   3. **5th Annual Magnetic Recording Conference (TMRC) on Signal Processing**
                                            Magnetics, IEEE Transactions on
                                            Volume 31, Issue 2, Mar 1995
                                            Digital Object Identifier 10.1109/20.364762

                                            AbstractPlus | Full Text: PDF(14616 KB)   IEEE JNL
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                                    ☐   4. **A parallel algorithm for graph matching and its MasPar implementation**
                                            Allen, R.; Cinque, L.; Tanimoto, S.; Shapiro, L.; Yasuda, D.;
                                            Parallel and Distributed Systems, IEEE Transactions on
                                            Volume 8, Issue 5, May 1997 Page(s):490 - 501
                                            Digital Object Identifier 10.1109/71.598276

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                                    ☐   5. **PERFORM: a fast object recognition method using intersection of projection**
                                            Modayur, B.R.; Shapiro, L.G.;
                                            Pattern Analysis and Machine Intelligence, IEEE Transactions on
                                            Volume 19, Issue 5, May 1997 Page(s):499 - 506
                                            Digital Object Identifier 10.1109/34.589210

                                            AbstractPlus | References | Full Text: PDF(360 KB)   IEEE JNL
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                                    ☐   6. **IEEE standard computer dictionary. A compilation of IEEE standard computer glossaries**
                                            18 Jan. 1991

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